

FIG. 1

The diagram shows a Breakpoint Table with six rows. The columns are labeled: ADDR, OP CODE, STMT, TYPE, ID, and ENCOUNTERED THREAD ID LIST. Row 205 contains FE234, LOD, 22, ENTRY, 2, and 9,10. Row 210 contains FA321, LOD, 23, SCOPED, 2, and an empty list. Row 215 contains FA328, LOD, 24, SCOPED, 2, and an empty list. Row 220 contains FA402, LOD, 30, END, 2, and an empty list. Row 225 contains FB102, JMP, 101, NORMAL, an empty ID field, and an empty list. A large bracket labeled 170 spans the entire width of the table below the last row. Callouts with numbers 230, 235, 240, 245, 250, and 255 point to the ADDR, OP CODE, STMT, TYPE, ID, and ENCOUNTERED THREAD ID LIST columns respectively.

	ADDR	OP CODE	STMT	TYPE	ID	ENCOUNTERED THREAD ID LIST
205	FE234	LOD	22	ENTRY	2	9,10
210	FA321	LOD	23	SCOPED	2	
215	FA328	LOD	24	SCOPED	2	
220	FA402	LOD	30	END	2	
225	FB102	JMP	101	NORMAL		

BREAKPOINT
TABLE

FIG. 2

+

FILE EDIT

```
FOO (INT I)
{
    CHAR BUF[100];
    CHAR *P;
    IF (I <=100)
    {
        P = BUF;
    }
    ELSE          305
    {
        P = MALLOC(I);      /* STATEMENT 22 */
    }

    STRCPY(P, STARTSTRING);    /* STATEMENT 23 */
    IF (P[12] == 'Z')
        STRCPY(P, NEXTSTRING); /* STATEMENT 24 */

    .
    .
    .
    RETURN 1;                /* STATEMENT 30 */
}

.
.
.

FOO2()
{
    CREATE_THREAD(FOO(MYSTRING)); /* STATEMENT 101 */
    RETURN 1;
}
```

SELECT START OF REGION

300

302

305

304

FIG. 3

400

FILE EDIT

```

FOO (INT I)
{
    CHAR BUF[100];
    CHAR *P;
    IF (I <=100)
    {
        P = BUF;
    }
    ELSE
    {
        P = MALLOC(I); 305           /* STATEMENT 22 */
    }

    STRCPY(P, STARTSTRING); 405     /* STATEMENT 23 */
    IF (P[12] == 'Z')
        STRCPY(P, NEXTSTRING); 410   /* STATEMENT 24 */

    .
    .
    .

    RETURN 1;                      /* STATEMENT 30 */
}

.
.

FOO2()
{
    CREATE_THREAD(FOO(MYSTRING)); /* STATEMENT 101 */
    RETURN 1;
}

```

SELECT LOCATIONS FOR AUTOMATIC THREAD BREAKPOINT

404

FIG. 4

FILE EDIT

```
FOO (INT I)
{
    CHAR BUF[100];
    CHAR *P;
    IF (I <=100)
    {
        P = BUF;
    }
    ELSE
    {
        P = MALLOC(I); 305           /* STATEMENT 22 */
    }
    405
    STRCPY(P, STARTSTRING); /* STATEMENT 23 */
    IF (P[12] == 'Z') 410
        STRCPY(P, NEXTSTRING); /* STATEMENT 24 */

    .
    .
    .
    RETURN 1; 505                /* STATEMENT 30 */
}

FOO2()
{
    CREATE_THREAD(FOO(MYSTRING)); /* STATEMENT 101 */
    RETURN 1;
}
```

SELECT END OF REGION

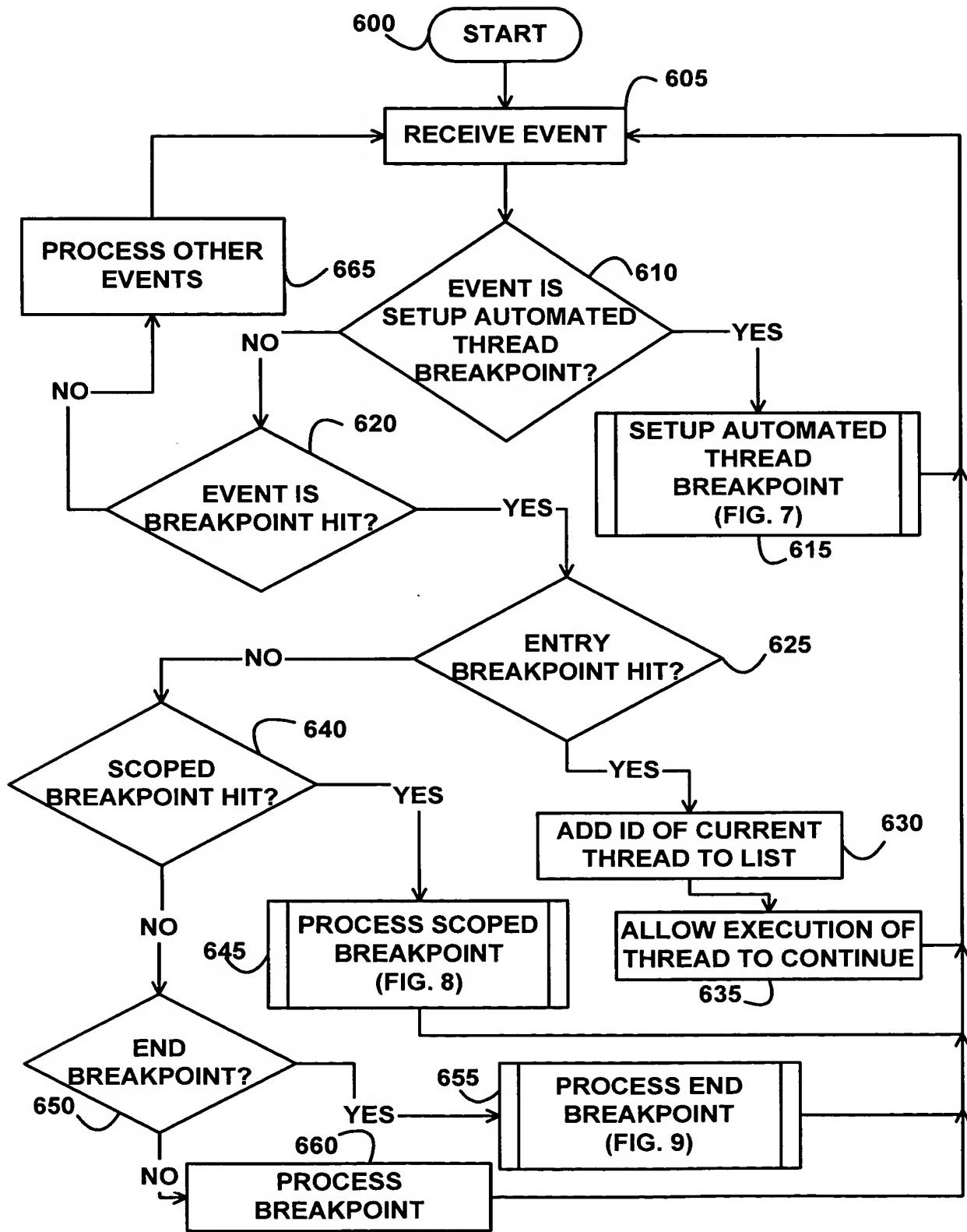


FIG. 6

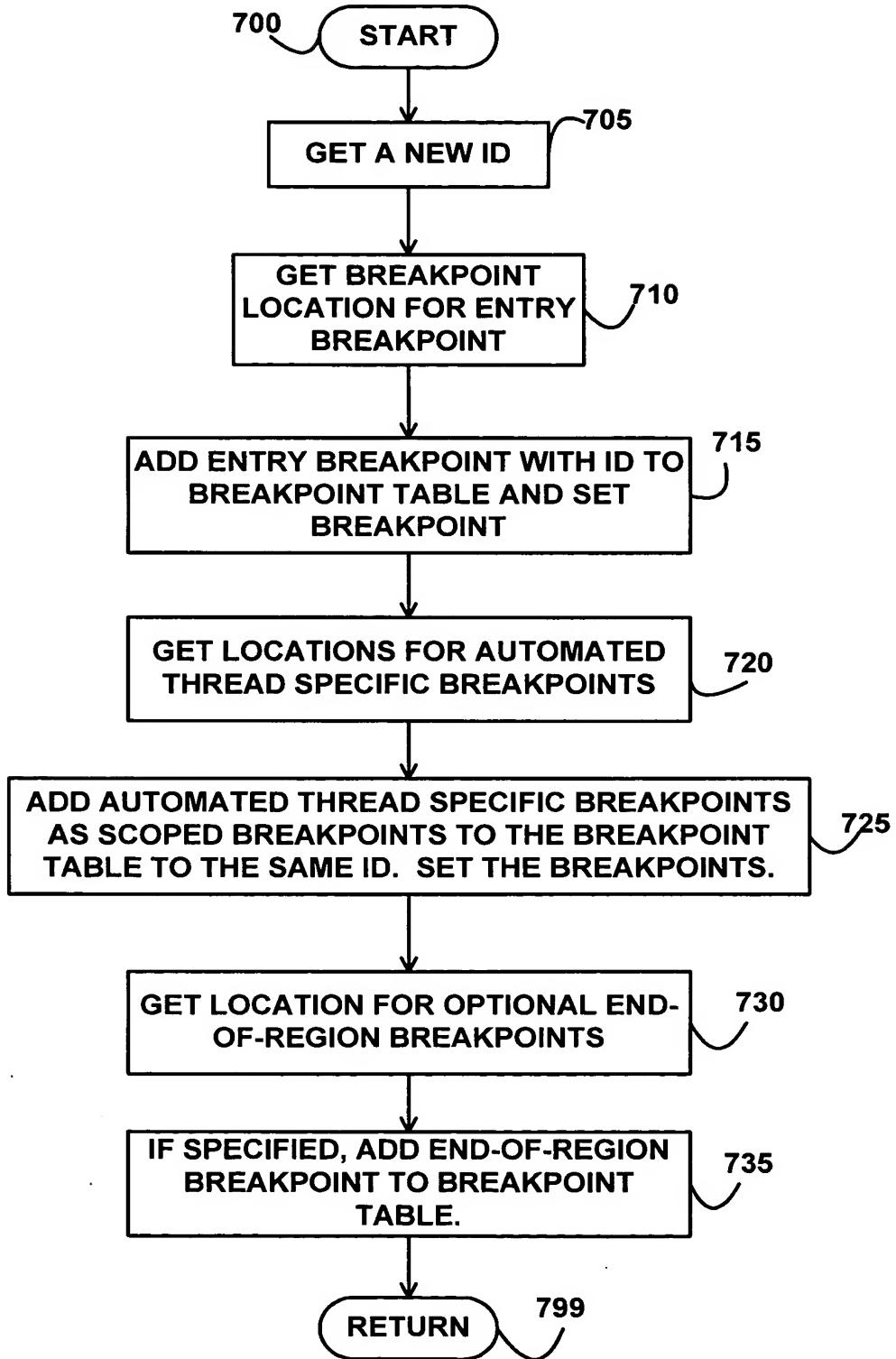


FIG. 7

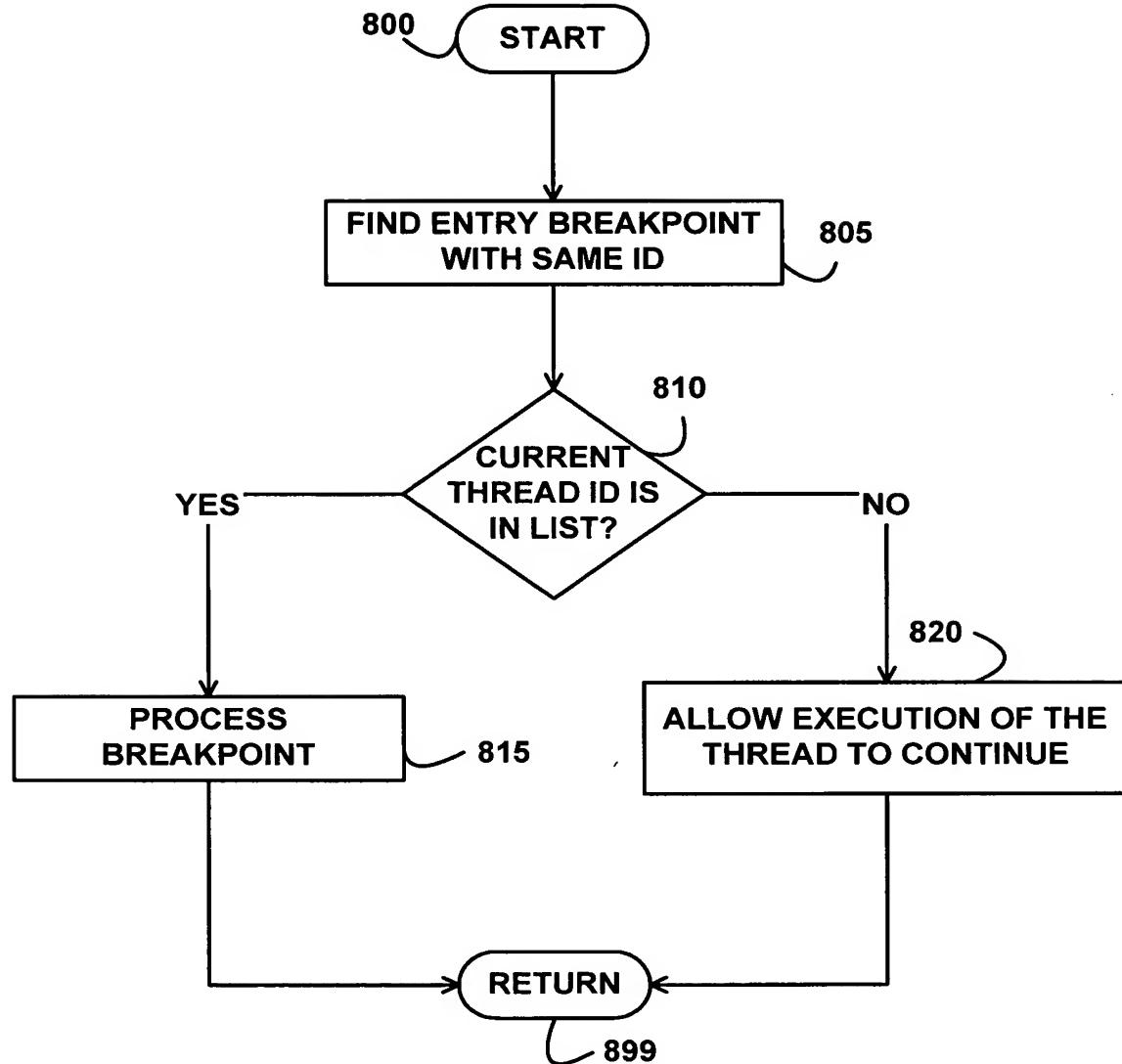


FIG. 8



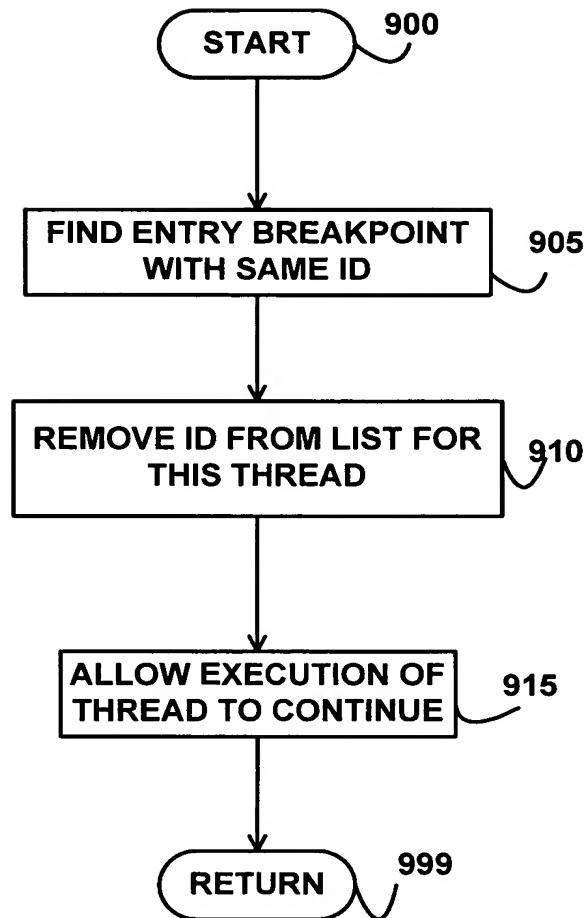


FIG. 9